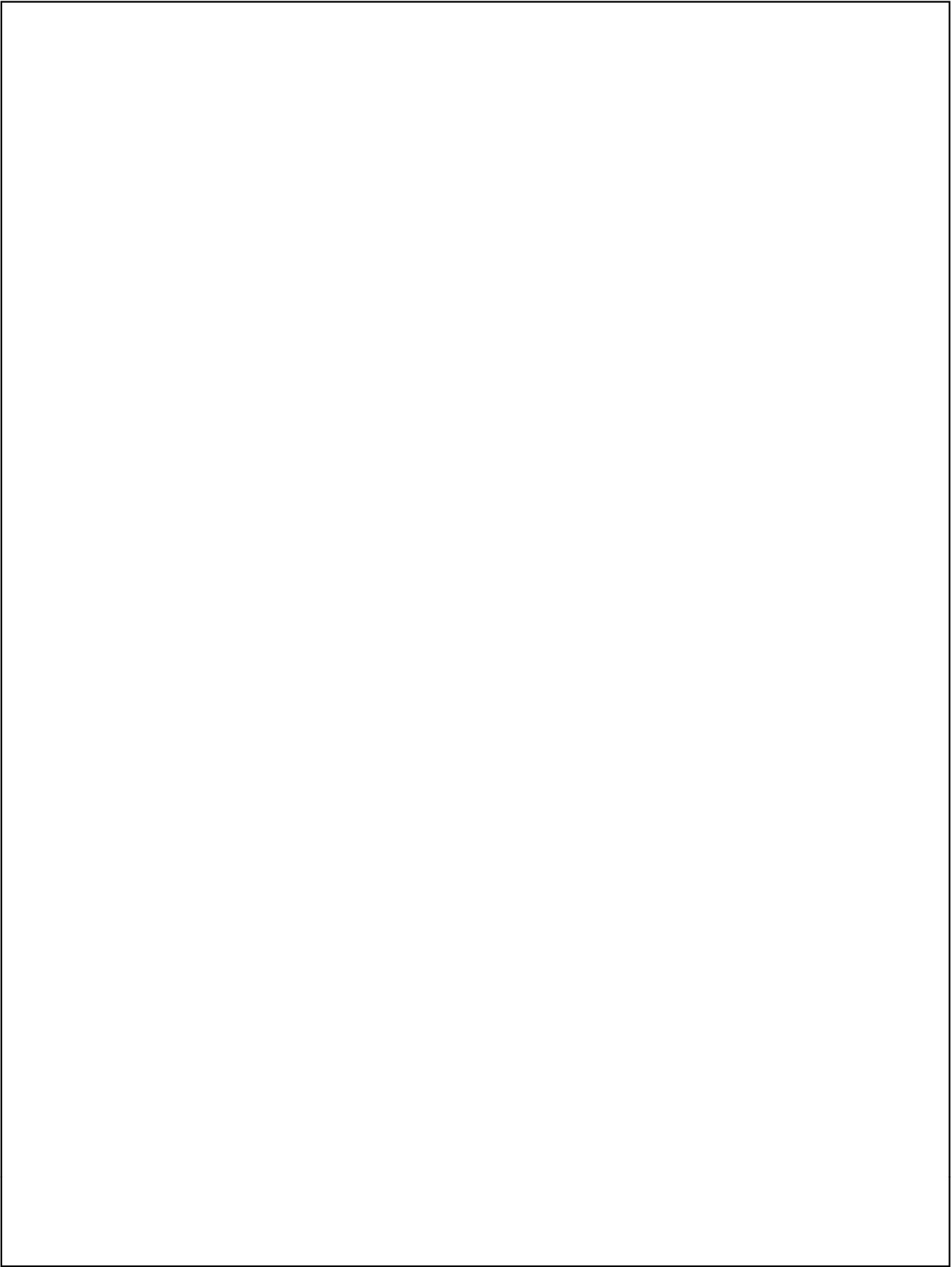


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Background: Program, Reason, Usage

- Light Duty Exhaust Fuels (\$4m EPA, \$2m DOE, \$160K CRC)
 - Reason: Impact of ETOH and fuel properties on Tier 2 exhaust emissions
 - Usage: MOVES and Complex model, EISA, CMAQ, PM source apportionment
 - RFS2 NPRM (freeze data July, 2008) - E10, E15 discussion, temperature impacts
 - RFS2 FRM, (1st Q 2009) Extensive E10, E15, E20 data set from Phases 1&2 (partial 3)
- Oil PM Study
 - Reason: Determine oil age and ETOH interaction impact on PM
 - Usage: Support of LDEF and future MOVES PM oil age relationship
 - LDEF vehicle mileage requirements for oil stability
 - Oil change requirements between ETOH blends
- PM Speciation
 - Reason: Impact of ETOH on Tier 2 vehicle PM and VOC speciation profiles, metals
 - Usage: CMAQ and other modeling, source apportionment work
 - RFS2 FRM
- Non-Road Exhaust
 - Reason: Impact of ETOH on sample of non-road engine exhaust
 - Usage: MOVES (general data need) to support:
 - Early data for RFS2 NPRM, RFS2 FRM
- Evaporative Testing
 - Reason: Impact of ETOH on Tier 2 near zero and determine % fleet malfunctioning
 - Usage: MOVES (general data need) and to support:
 - RFS2 FRM
- All data can be used for future GHG rulemaking, EISA Anti-Backsliding report to Congress, & update of Complex Model (2009)